REMARKS

Preliminary to examination of this application please amend Claims 46, 56, 57, and 61-66, please add new Claims 78-84, and please cancel Claims 54 and 55 without prejudice. Applicants note with appreciation the opportunity provided by the Examiner to discuss this application in person. Now in the application are Claims 46-55, and 58-84, of which Claims 46, 58, and 70 are independent. The cancellations of and/or amendments to the claims are being made to more fully appreciate the inventive subject matter of the above identified application.

More specifically, Claim 46 is amended to include the subject matter of cancelled Claims 54 and 55, and to more fully appreciate the concept of an event message. Likewise, Claims 61-66 are amended to clarify the recited message is an event message. New Claims 78-84 further define events in a network associated with an event message. No new matter is added and no new issues are raised by these amendments. Accordingly, consideration of the amendments requires no further search. The following comments address all previously stated grounds for rejection and place the presently pending claims, as identified above, in condition for allowance.

Double Patenting Rejection

The Office Action provisionally rejected Claims 46-77 under the judicially created doctrine of obviousness type double patenting as being unpatentable over claims 1-30 of now issued U.S. Patent Number 6,131,112 of Lewis et al. in view of Published International Application WO 95/08794 and U.S. Patent Number 5,473,608 of Gagne et al. Applicant submits herewith a Terminal Disclaimer to overcome the double patenting rejection.

CLAIM REJECTIONS UNDER 35 U.S.C. §103

Claims 46-77 stand rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,764,995 of Doolan (hereinafter "Doolan") in view of U.S. Patent No. 6,026,091 of Christie, et al. (hereinafter "Christie"). Applicants respectfully traverse these rejections on the basis of the following arguments, and further contend that neither Doolan nor Christie, alone or in combination, teach or suggest all elements of these

claims, as described below, and hence, does not detract from the patentability of claims 46-77.

For purposes of clarity in the discussion below, the respective claim rejections under 35 U.S.C. §103 are discussed separately.

A. Rejection of Claims 46-60 Under 35 U.S.C. §103(a)

The Office Action rejects claims 46-60 as being unpatentable over Doolan in view of Christie. Applicant respectfully traverses this rejection on the basis of the following arguments and further contends that neither Doolan nor Christie, alone or in combination, teach or suggest all elements of these claims as described below, and hence, does not render these claims unpatentable.

In the present invention, a method for sharing information between two management systems is provided to more efficiently utilize the resources of both systems (please see page 3, line 26 through page 4, line 4 of the Application). In this system, a first management system notifies a second management system when a message is available from the first management system. The messages are typically events or alarms that are produced by managed entities. To avoid sending all events from all managed entities to a single system, a method is provided wherein the first and second management systems may share information, yet not be subsumed with the task of managing all of the entities. To meet this end, the first management system takes an action to provide second management system with the message in the format compatible with the first management system. In some instances, the first management system may filter out less important events or alarms (please see page 15, lines 9-16 of the Application) to reduce the burden on the second management system. Also, the first management system may correlate the events or alarms to determine whether the events or alarms are of interest to the second management system (please see page 13, lines 24-28). Further, the first management system is capable of providing display views used to manage one or more of the entities. (please see page 5, lines 3-7).

The Doolan patent is directed to a gateway that allows a CMIP/CMISE network manager to manage legacy telecommunications network elements by providing a bi-directional mapping between CMIP messages and legacy syntax messages. The Doolan

patent <u>does not</u> teach or suggest a method for sharing information between a first management and a second management system, as set forth in claim 46. The invention recited in claim 46 is directed to communications between *two* management systems. In contrast, the Doolan reference teaches or suggests communications between a <u>single</u> management system and a <u>gateway</u> and does not teach or suggest communications between *two* management systems, a significant advantage of the claimed invention.

The Christie reference is directed to an ATM call connection manager (CCM) and an ATM <u>gateway</u> responsive to <u>control</u> messages from the CCM. The ATM gateway in response to a <u>control</u> message from the ATM CCM changes a value in a field of an ATM cell as the ATM cell transfers from a first ATM system to a second ATM system. The ATM CCM and ATM gateway of Christie help ensure proper routing of ATM cells between the first ATM system and the second ATM system. That is, the ATM CCM and ATM gateway are responsible for changing the virtual path identification/virtual channel identification (VPI/VCI) value of an ATM cell from a value associated with the first ATM system to a value associated with the second ATM system, and vice versa, to ensure proper routing of ATM cells between the first ATM system and the second ATM system. The Christie patent <u>does not</u> teach or suggest a method for sharing information between a first management system and a second management system as recited in claim 46.

The ATM CCM taught by the Christie patent is concerned with <u>command</u> and <u>control</u> messages not *event messages*. Further, the object of the Christie patent is to avoid the use of a high cost ATM switch between the first ATM system and the second ATM system and, hence, is merely concerned with transporting data from a source node in a network to a destination node in the network without regard for the sharing of information between two management systems.

Claims 47-53 and 56-60 depend, directly or indirectly from amended independent claim 46, and therefore incorporate the patentable subject matter of claim 46. Amended claim 46 is directed to a method for sharing information between a first management system and a second management system. The method includes steps of the first management system receiving an event message and determining whether the event message relates to an entity that is managed by the second management system. The event message indicates an occurrence of an event in a network associated with the first

management system. When the event message relates to an entity that is managed by the second management system, the event message is formatted into a format compatible with the second management system. The method also includes a step of taking an action to provide the second management system with the event message in the format compatible with the second management system.

The subject matter recited in Claims 47-53 and 56-60 are patentability distinct from the Doolan reference and the Christie reference, alone or in combination. Neither the Doolan reference nor the Christie reference teach or suggest communications between two management systems.

The Doolan reference is cited for teaching or suggesting the steps of the first management system receiving an event message and determining whether the event message relates to an entity that is managed by a second management system. The Examiner recognizes that the Doolan reference fails to teach or suggest the steps of formatting an event message in a format compatible with a second management system and taking an action to provide the second management system with the event message in the format compatible with the second management system. Nonetheless, the Doolan reference does not teach or suggest a first management system receiving an event message and determining whether the event message relates to an entity managed by a second management system.

The Doolan reference teaches a management system (200) that relies on a gateway (204) for communication with legacy network elements. That is, Doolan recognizes that older network equipment often lack the capability to support more recent management protocols, such as the common management information protocol (CMIP). Accordingly, Doolan teaches an intermediary or gateway between the management system and the legacy network equipment to map and translate requests and responses between the management system (200) and the legacy network elements. As such, a single network management system using a communication protocol not supported by legacy network equipment can still manage the legacy network equipment using the communication protocol. That is, the Doolan reference teaches a single management system and does not teach or suggest a method for sharing information between *two* management systems that include steps of the first management system receiving an event message and determining whether the event message relates to an entity managed

by a second management system. The gateway (204) of Doolan <u>does not</u> manage entities. Gateway (204) of Doolan is merely a translation mechanism such as a dictionary for use in looking up commands. Manager (200) manages the network elements the gateway (204) doe not.

The Christie reference is cited as teaching or suggesting the steps of formatting of the event message in a format compatible with the second management system when the event message relates to an entity managed by the second management system and taking of an action to provide the second management system with the event message in the format compatible with the second management system, as recited in amended Claim 46. The gateway (130) of Christie does <u>not</u> format an event message in a format compatible with a second management system. That is, gateway (130) acts and operates much like an ATM switch directing ATM cells from a first ATM network to a second ATM network. Gateway (130) merely modifies a value in a field of an ATM cell and does not carry out any formatting or re-formatting of the cell to ensure an ATM cell is properly routed between two ATM networks. Moreover, the ATM CCM of the Christie reference is concerned with <u>control</u> messages <u>not</u> *event* messages. The <u>control</u> messages of Christie relate to commands or instructions for the gateway to perform. The <u>control</u> messages of Christie do <u>not</u> indicate an occurrence of an event in a network. More likely, if at all, the <u>control</u> messages of Christie are a result of an event message. Moreover, *event* messages originate from a managed object and <u>not</u> from the manager of a managed object. By contrast, a <u>control</u> message originates from the manager of the managed object, not the managed object.

The citation of the Doolan reference in view of the Christie reference, fails to establish a *prima facie* case of obviousness with which to reject Claims 46-53 and 56-66. Neither the Doolan reference nor the Christie reference, alone or in combination, teach or suggest each and every element of Claims 46-53 and 54-66, as amended. In the Office Action, the Examiner simply submits as evidence of motivation the unsupportive statements that the gateway disclosed by Christie is similar to the gateway disclosed by Doolan, and, therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Christie and Doolan. Applicant respectfully submits that the gateway of Christie has a structure, operation, and function distinct from the structure,

operation, and function of the Doolan gateway. Consequently, one skilled in the art is not motivated to combine the gateway of Christie with the gateway of Doolan.

The suggested combination of references would require a substantial reconstruction and redesign of the gateway element detailed in the Doolan reference as well as a significant change in the basic principal under which the gateway of Doolan was constructed and designed to operate. That is, the replacement of the Doolan gateway with the Christie gateway would leave the system of Doolan inoperable. The mere changing of a value in a field of an ATM cell does not result in the translation of a communication from a CMIP format to some other format understood by a piece of legacy network equipment.

Furthermore, the nature of the problem to be solved by the Doolan reference is distinct from the nature of the problem to be solved by the Christie reference, leaving one skilled in the art with no motivation to combine the references as the Examiner suggests. That is, the gateway of the Doolan reference solves the problem of having to replace legacy network equipment merely because of a change in a command and control protocol used to remotely manage the equipment. To overcome this problem, Doolan teaches a gateway for translating between the new protocol and the legacy protocol, thus saving considerable expense by avoiding the need to replace the legacy network equipment in order to operate a network with a new command and control protocol. In contrast, the problem solved by the Christie reference is to avoid the significant expense of placing an ATM switch between two ATM systems or networks. Essentially, the gateway taught by the Christie reference is a software switch or soft switch and avoids the need for an expensive hardware component for transferring ATM cells between two ATM systems. Hence, the Doolan reference and the Christie reference both solve distinct and unrelated problems. Furthermore, the present application is meant to solve a third problem distinct and unrelated from the problems solved by the Doolan reference and the Christie reference. That is, the subject matter disclosed by the inventors in the present application solve the problem of sharing information between two different management systems to more efficiently utilize the resources of both systems. Hence, the problem solved by the Doolan reference and the Christie reference would not have suggested to or motivated one skilled in the art to combine the references in an attempt to solve a problem of sharing information between two management systems.

As such, Applicants assert that the Christie reference fails to bridge the factual deficiencies of the Doolan reference and therefore neither the Doolan reference, nor the Christie reference, alone or in combination establish a *prima facie* case of obviousness. Hence, neither the Doolan reference nor the Christie reference, alone or in combination, detract from the patentability of Claims 46-53 and 56-60, as amended. Accordingly, Applicants respectfully request the Examiner to reconsider and withdraw the rejection of claims 46-53 and 56-60 under 35 U.S.C. §103(a).

B.   Rejection of Claims 61-72 Under 35 U.S.C. §103(a)

The Office Action rejects claims 61-72 as being unpatentable over Doolan in view of Christie. Applicant respectfully traverses this rejection on the basis of the following arguments and further contends that neither Doolan nor Christie, alone or in combination, teach or suggest all elements of these claims as described below, and hence, does not render these claims unpatentable.

The Doolan reference is directed to a gateway that allows a CMIP/CMISE network manager to manage legacy telecommunications network elements by providing a bi-directional mapping between CMIP messages and legacy syntax messages. The Doolan reference does not teach or suggest an apparatus for sharing information between a first management and a second management system, as set forth in amended Claim 61. The invention recited in amended Claim 61 is directed to an apparatus for sharing information between *two* management systems. In contrast, the Doolan reference teaches or suggests communications between a single management system and a gateway and does not teach or suggest communications between *two* management systems, a significant advantage of the claimed invention.

The Christie reference is directed to an ATM CCM and an ATM gateway. The ATM gateway is responsive to control messages from the ATM CCM to change a value in a field of an ATM cell as the ATM cell transfers from a first ATM system to a second ATM system. The ATM CCM and ATM gateway of Christie help ensure proper routing of ATM cells between the first ATM system and the second ATM system without the use of an ATM switch. That is, the ATM CCM and the ATM gateway are responsible for changing the VPI/VCI value of an ATM cell from a value associated with the first ATM system to a value associated with the second ATM system, and vice versa, to ensure

proper routing of ATM cells between the first ATM system and the second ATM system.

The Christie reference does not teach or suggest an apparatus for sharing information between a first management system and a second management system as recited in amended Claim 61. Further, the object of the Christie reference is to avoid the use of a high cost ATM switch between the first ATM system and the second ATM system and, hence, is merely concerned with transporting data from a source node in a network to a destination node in the network without regard for the sharing of information between two management systems.

Claims 62-72 as amended depend from amended Claim 61 and therefore incorporate the patentable subject matter of amended Claim 61. Amended Claim 61 is directed to an apparatus for sharing information between a first management system and a second management system. The apparatus includes a first means for receiving an event message from the first management system and a second means for determining whether the event message relates to an entity that is managed by the second management system. A third means of the apparatus formats the event message in a format compatible with the second management system when the event message relates to an entity that is managed by the second management system. A fourth means of the apparatus takes an action to provide the second management system with the event message in the format compatible with the second management system.

Neither the Doolan reference nor the Christie reference, alone or combination teach or suggest each and every element of amended Claim 61. Doolan is concerned with a gateway that translates and maps communications between a single management system and legacy pieces of network equipment. Christie is concerned with an ATM CCM and ATM gateway responsible for routing ATM cells between two ATM systems. Nowhere does the Doolan reference or the Christie reference teach two management systems sharing event messages.

Accordingly, Applicant contends that the Doolan reference in view of the Christie reference fails to teach or suggest each and every element of amended Claim 61 and therefore each and every element of Claims 62-72 as amended. As such, Applicants respectfully request the Examiner to reconsider and withdraw the rejection of claims 61-72 under 35 U.S.C. §103(a).

C.   Rejection of Claims 73-77 Under 35 U.S.C. §103(a)

The Office Action rejects claims 73-77 as being unpatentable over Doolan in view of Christie. Applicant respectfully traverses this rejection on the basis of the following arguments and further contends that neither Doolan nor Christie, alone or in combination, teach or suggest all elements of these claims as described below, and hence, does not render these claims unpatentable.

The Doolan reference is directed to a gateway that allows a CMIP/CMISE network manager to manage legacy telecommunications network elements by providing a bi-directional mapping between CMIP messages and legacy syntax messages. The Doolan reference does not teach or suggest a system providing an interface between a first management and a second management system, as set forth in claim 73. The invention recited in claim 73 is directed to a system providing an interface between *two* management systems. In contrast, the Doolan reference teaches or suggests communications between a single management system and a gateway and does not teach or suggest an interface between *two* management systems, a significant advantage of the claimed invention.

The Christie reference is directed to an ATM gateway responsible for changing a value in a field of an ATM cell as the ATM cell transfers from a first ATM system to a second ATM system. The ATM gateway of Christie helps ensure proper routing of ATM cells between the first ATM system and the second ATM system. That is, the ATM gateway is responsible for changing the VPI/VCI value of an ATM cell from a value associated with the first ATM system to a value associated with the second ATM system, and vice versa, to ensure proper routing of ATM cells between the first ATM system and the second ATM system. The Christie patent does not teach or suggest a system providing an interface between a first management system and a second management system as recited in claim 73. Further, the object of the Christie patent is to avoid the use of a high cost ATM switch between the first ATM system and the second ATM system and, hence, is merely concerned with transporting data from a source node in a network to a destination node in the network without regard for providing an interface between two management systems.

Claims 74-77 depend from claim 73 and therefore incorporate the patentable subject matter of claim 73. Claim 73 is directed to a system for providing an interface

between a first management system and a second management system. The system includes a correlator. The correlator has an input that receives a message from the first management system and an output that provides a correlated message when the message is related to an entity managed by the second management system. The system includes a message formatter coupled to the correlator. The message formatter has an input that receives the correlated message and an output that provides a formatted message in a format that is compatible with the second management system. The system also includes an interface module coupled to the correlator and the second management system. The interface module takes a selected action should the output of the correlator provide a correlated message.

Neither the Doolan reference nor the Christie reference, alone or combination teach or suggest each and every element of claim 73. Doolan is concerned with a gateway that translates and maps communications between a single management system and legacy pieces of network equipment. Christie is concerned with an ATM gateway responsible for routing ATM cells between two ATM systems.

Accordingly, Applicant contends that the Doolan reference in view of the Christie reference fails to teach or suggest each and every element of claim 73 and therefore each and every element of claim 74-77. As such, Applicants respectfully request the Examiner to reconsider and withdraw the rejection of claims 73-77 under 35 U.S.C. §103(a).

New Claims 78-84

New Claims 78-84 depend from independent Claim 46 and therefore incorporate the patentable features of amended Claim 46. Hence, new Claims 78-84 are not anticipated by nor are they rendered obvious by the cited references either alone or in combination. New Claims 78-84 recite subject matter that further defines the event message recited in Claim 46. Accordingly, new Claims 78-84 are patentably distinct from each of the cited references either alone or in combination.

CONCLUSION

In view of the remarks set forth above, Applicants contend that Claims 46-84 presently pending in this application, are patentable, and in condition for allowance. If the Examiner deems there are any remaining issues, we invite the Examiner to call the undersigned at (617) 227-7400.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

David R. Burns
Reg. No. 46,590
Attorney for Applicants

28 State Street
Boston, MA 02109
(617) 227-7400

Dated: **November 19, 2004**

ASSIGNMENT

In consideration of One Dollar ($1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned Lundy Lewis, David St. Onge and Ruchika Mehta hereby

Sell, assign and transfer to Cabletron Systems, Inc., a Delaware corporation having a place of business at 35 Industrial Way, P.O. Box 5005, Rochester, New Hampshire 03867-5005, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on May 17, 1996 under Serial No. 08/649,278 and entitled METHOD AND APPARATUS FOR INTEGRATED NETWORK MANAGEMENT AND SYSTEMS MANAGEMENT IN COMMUNICATIONS NETWORKS, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

We agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting

title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

July 17, 1956
_____
Date

LUNDY LEWIS
_____

STATE OF __New Hampshire__ :
COUNTY OF __Hillsborough__ :

Subscribed and sworn to before me this 17th day of ___July___, 1996.

SEAL

Timothy B. Hardy
_____
Notary Public

July 17, 1996
Date

David St. Onge
DAVID ST. ONGE

STATE OF _New Hampshire_ :
COUNTY OF _Hillsborough_ :

Subscribed and sworn to before me this _17th_ day of _July, 1996_.

SEAL
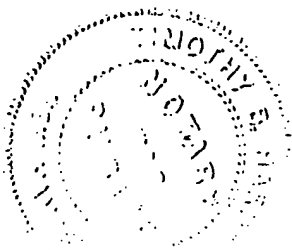
Timothy B. Hardy
Notary Public

TIMOTHY B. HARDY, Notary Public
My Commission Expires September 16, 1997

✓ _9/24/96_
Date

Ruchika Mehta
RUCHIKA MEHTA

STATE OF _NEW JERSEY_ :
COUNTY OF _MIDDLESEX_ :

Subscribed and sworn to before me this _24th_ day of _September 96_

SEAL

William D Lynch
Notary Public

WILLIAM D. LYNCH
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES MAY 31, 2001

Appendix B

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Assignments on the Web > **Patent Query**

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Patent Assignment Details

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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Total properties: 60

1   **Patent #:** 5261044   **Issue Dt:** 11/09/1993   **Application #:** 07788936   **Filing Dt:** 11/07/1991
     Title: NETWORK MANAGEMENT SYSTEM USING MULTIFUNCTION ICONS FOR INFORMATION DISPLAY

2   **Patent #:** 5436909   **Issue Dt:** 07/25/1995   **Application #:** 07789000   **Filing Dt:** 11/07/1991
     Title: NETWORK MANAGEMENT SYSTEM USING STATUS SUPPRESSION TO ISOLATE NETWORK FAULTS

3   **Patent #:** 5666481   **Issue Dt:** 09/09/1997   **Application #:** 08023972   **Filing Dt:** 02/26/1993
     Title: METHOD AND APPARATUS FOR RESOLVING FAULTS IN COMMUNICATIONS NETWORKS

4   **Patent #:** 5295244   **Issue Dt:** 03/15/1994   **Application #:** 08101777   **Filing Dt:** 08/03/1993
     Title: NETWORK MANAGEMENT SYSTEM USING INTERCONNECTED HIERARCHIES TO REPRESENT DIFFERENT NETWORK DIMENSIONS IN MULTIPLE DISPLAY VIEWS

5   **Patent #:** 5504921   **Issue Dt:** 04/02/1996   **Application #:** 08243642   **Filing Dt:** 05/16/1994
     Title: NETWORK MANAGEMENT SYSTEM USING MODEL-BASED INTELLIGENCE

6   **Patent #:** 5521910   **Issue Dt:** 05/28/1996   **Application #:** 08321038   **Filing Dt:** 10/05/1994
     Title: A METHOD FOR DETERMINING A BEST PATH BETWEEN TWO NODES

7   **Patent #:** 5675741   **Issue Dt:** 10/07/1997   **Application #:** 08328513   **Filing Dt:** 10/25/1994
     Title: METHOD AND APPARATUS FOR DETERMINING A COMMUNICATIONS PATH BETWEEN TWO NODES IN AN INTERNET PROTOCOL (IP) NETWORK

8   **Patent #:** 5559955   **Issue Dt:** 09/24/1996   **Application #:** 08355430   **Filing Dt:** 12/13/1994
     Title: METHOD AND APPARATUS FOR MONITORING THE STATUS OF NON-POLLABLE DEVICE IN A COMPUTER NETWORK

9   **Patent #:** 5748781   **Issue Dt:** 05/05/1998   **Application #:** 08368414   **Filing Dt:** 01/04/1995
     Title: METHOD AND APPARATUS FOR DIGITAL DATA COMPRESSION

10   **Patent #:** 5627819   **Issue Dt:** 05/06/1997   **Application #:** 08370158   **Filing Dt:** 01/09/1995
     Title: USE OF MULTIPOINT CONNECTION SERVICES TO ESTABLISH CALL-TAPPING POINTS IN A SWITCHED NETWORK

11   **Patent #:** 5706436   **Issue Dt:** 01/06/1998   **Application #:** 08382294   **Filing Dt:** 02/01/1995
     Title: APPARATUS AND METHOD FOR EVALUATING NETWORK TRAFFIC PERFORMANCE

12   **Patent #:** 5832503   **Issue Dt:** 11/03/1998   **Application #:** 08394143   **Filing Dt:** 02/24/1995
     Title: METHOD AND APPARATUS FOR CONFIGURATION MANAGEMENT IN COMMUNICATIONS NETWORKS

13   **Patent #:** 5777549   **Issue Dt:** 07/07/1998   **Application #:** 08412955   **Filing Dt:** 03/29/1995
     Title: METHOD AND APPARATUS FOR POLICY-BASED ALARM NOTIFICATION IN A DISTRIBUTED NETWORK MANAGEMENT ENVIRONMENT

14 **Patent #:** 5872928   **Issue Dt:** 02/16/1999   **Application #:** 08450854   **Filing Dt:** 05/25/1995
  Title: METHOD AND APPARATUS FOR DEFINING AND ENFORCING POLICIES FOR CONFIGURATION MANAGEMENT IN COMMUNICATIONS NETWORKS

15 **Patent #:** 5649103   **Issue Dt:** 07/15/1997   **Application #:** 08502163   **Filing Dt:** 07/13/1995
  Title: METHOD AND APPARATUS FOR MANAGING MULTIPLE SERVER REQUESTS AND COLLATING RESPONSES

16 **Patent #:** 5764955   **Issue Dt:** 06/09/1998   **Application #:** 08545024   **Filing Dt:** 10/19/1995
  Title: GATEWAY FOR USING LEGACY TELECOMMUNICATIONS NETWORK ELEMENT EQUIPMENT WITH A COMMON MANAGEMEMNT INFORMATION PROTOCOL

17 **Patent #:** 5590120   **Issue Dt:** 12/31/1996   **Application #:** 08550630   **Filing Dt:** 10/31/1995
  Title: PORT-LINK CONFIGURATION TRACKING METHOD AND APPARATUS

18 **Patent #:** 5696486   **Issue Dt:** 12/09/1997   **Application #:** 08558425   **Filing Dt:** 11/16/1995
  Title: METHOD AND APPARATUS FOR POLICY-BASED ALARM NOTIFICATION IN A DISTRIBUTED NETWORK MANAGEMENT ENVIRONMENT

19 **Patent #:** 5793362   **Issue Dt:** 08/11/1998   **Application #:** 08566978   **Filing Dt:** 12/04/1995
  Title: A CONFIGURATIONS TRACKING SYSTEM USING TRANSITION MANAGER TO EVALUATE VOTES TO DETERMINE POSSIBLE CONNECTIONS BETWEEN PORTS IN A COMMUNICA- TION NETWORK IN ACCORDANCE WITH TRANSITION TABLES

20 **Patent #:** 5734642   **Issue Dt:** 03/31/1998   **Application #:** 08577429   **Filing Dt:** 12/22/1995
  Title: METHOD AND APPARATUS FOR NETWORK SYNCHRONIZATION

21 **Patent #:** 6233623   **Issue Dt:** 05/15/2001   **Application #:** 08585054   **Filing Dt:** 01/10/1996
  Title: REPLICATED RESOURCE MANAGEMENT SYSTEM FOR MANAGING RESOURCES IN A DISTRIBUTED APPLICATION AND MAINTAINING A RELATIVISTIC VIEW OF STATE

22 **Patent #:** 6199172   **Issue Dt:** 03/06/2001   **Application #:** 08596064   **Filing Dt:** 02/06/1996
  Title: METHOD AND APPARATUS FOR TESTING THE RESPONSIVENESS OF A NETWORK DEVICE

23 **Patent #:** 5751965   **Issue Dt:** 05/12/1998   **Application #:** 08619012   **Filing Dt:** 03/21/1996
  Title: NETWORK CONNECTION STATUS MONITOR AND DISPLAY

24 **Patent #:** 5889953   **Issue Dt:** 03/30/1999   **Application #:** 08622866   **Filing Dt:** 03/29/1996
  Title: POLICY MANAGEMENT AND CONFLICT RESOLUTION IN COMPUTER NETWORKS

25 **Patent #:** 6131112   **Issue Dt:** 10/10/2000   **Application #:** 08649278   **Filing Dt:** 05/17/1996
  Title: METHOD AND APPARATUS FOR INTEGRATED NETWORK AND SYSTEMS MANAGEMENT

26 **Patent #:** 5768501   **Issue Dt:** 06/16/1998   **Application #:** 08654305   **Filing Dt:** 05/28/1996
  Title: METHOD AND APPARATUS FOR INTER-DOMAIN ALARM CORRELATION

27 **Patent #:** 5907696   **Issue Dt:** 05/25/1999   **Application #:** 08675473   **Filing Dt:** 07/03/1996
  Title: NETWORK DEVICE SIMULATOR

28 **Patent #:** 6041383   **Issue Dt:** 03/21/2000   **Application #:** 08681040   **Filing Dt:** 07/22/1996
  Title: ESTABLISHING CONTROL OF LOCK TOKEN FOR SHARED OBJECTS UPON APPROVAL MESSAGES FROM ALL OTHER PROCESSES

29 **Patent #:** 5751933   **Issue Dt:** 05/12/1998   **Application #:** 08713152   **Filing Dt:** 09/12/1996
  Title: METHOD AND APPARATUS FOR MONITORING THE STATUS OF NON-POLLABLE DEVICES IN A COMPUTER NETWORK

30 **Patent #:** 5687290   **Issue Dt:** 11/11/1997   **Application #:** 08722580   **Filing Dt:** 10/15/1996
  Title: METHOD AND APPARATUS FOR MONITORING AND CONTROLLING COMMUNICATIONS NETWORKS

31 **Patent #:** 5822305   **Issue Dt:** 10/13/1998   **Application #:** 08731701   **Filing Dt:** 10/17/1996
  Title: PORT-LINK CONFIGURATION TRACKING METHOD AND APPARATUS

32 **Patent #:** 5754532   **Issue Dt:** 05/19/1998   **Application #:** 08747456   **Filing Dt:** 11/12/1996
  Title: USE OF MULTIPOINT CONNECTION SERVICES TO ESTABLISH CALL-TAPPING POINTS IN A SWITCHED NETWORK

33 **Patent #:** 6014697   **Issue Dt:** 01/11/2000   **Application #:** 08769278   **Filing Dt:** 12/18/1996
  Title: METHOD AND APPARATUS FOR AUTOMATICALLY POPULATING A NETWORK SIMULATOR TOOL

34 **Patent #:** 5727157   **Issue Dt:** 03/10/1998   **Application #:** 08770696   **Filing Dt:** 12/19/1996
  Title: APPARATUS AND METHOD FOR DETERMINING NETWORK TOPOLOGY

35 **Patent #:** 6084858   **Issue Dt:** 07/04/2000   **Application #:** 08790467   **Filing Dt:** 01/29/1997
  Title: DISTRUBITION OF COMMUNICATION LOAD OVER MULTIPLE PATHS BASED UPON LINK UTILIZATION

36 **Patent #:** 6216168   **Issue Dt:** 04/10/2001   **Application #:** 08819522   **Filing Dt:** 03/17/1997
  Title: PERSPECTIVE-BASED SHAPED SCOPE ADDRESS RESOLUTION MEHTOD AND APPARATUS

37 **Patent #:** 5812750   **Issue Dt:** 09/22/1998   **Application #:** 08824492   **Filing Dt:** 03/27/1997
  Title: METHOD AND APPARATUS FOR MONITORING THE STATUS OF NON-POLLABLE DEVICES IN A COMPUTER NETWORK

38 **Patent #:** 6115362   **Issue Dt:** 09/05/2000   **Application #:** 08827541   **Filing Dt:** 03/28/1997
  Title: METHOD AND APPARATUS FOR DETERMINING FRAME RELAY CONNECTIONS

39 **Patent #:** 6003090   **Issue Dt:** 12/14/1999   **Application #:** 08842049   **Filing Dt:** 04/23/1997
  Title: SYSTEM FOR DETERMINING CONNECTION AVAILABILITY BETWEEN SOURCE AND DESTINATION DEVICES FOR SPECIFIED TIME PERIOD

40 **Patent #:** 6209033   **Issue Dt:** 03/27/2001   **Application #:** 08855222   **Filing Dt:** 05/13/1997
  Title: APPARATUS AND METHOD FOR NETWORK CAPACITY EVALUATION AND PLANNING

41 **Patent #:** 6392667   **Issue Dt:** 05/21/2002   **Application #:** 08871153   **Filing Dt:** 06/09/1997
  Title: METHOD AND APPARATUS FOR REPRESENTING OBJECTS AS VISUALLY DISCERNABLE ENTITIES BASED ON SPATIAL DEFINITION AND PERSPECTIVE

42 **Patent #:** 6141720   **Issue Dt:** 10/31/2000   **Application #:** 08873550   **Filing Dt:** 06/12/1997
  Title: METHOD AND APPARATUS FOR COORDINATION OF A SHARED OBJECT IN A DISTRIBUTED SYSTEM

43 **Patent #:** 6437804   **Issue Dt:** 08/20/2002   **Application #:** 08956831   **Filing Dt:** 10/23/1997
  Title: METHOD FOR AUTOMATIC PARTITIONING OF NODE-WEIGHTED, EDGE-CONSTRAINED GRAPHS

44 **Patent #:** 5987442   **Issue Dt:** 11/16/1999   **Application #:** 08960076   **Filing Dt:** 10/24/1997
  Title: METHOD AND APPARATUS FOR LEARNING NETWORK BEHAVIOR TRENDS AND PREDICTING FUTURE BEHAVIOR OF COMMUNICATIONS NETWORKS

45 **Patent #:** 6026442   **Issue Dt:** 02/15/2000   **Application #:** 08976866   **Filing Dt:** 11/24/1997
  Title: METHOD AND APPARATUS FOR SURVEILLANCE IN COMMUNICATIONS NETWORKS

46 **Patent #:** 6502079   **Issue Dt:** 12/31/2002   **Application #:** 08986947   **Filing Dt:** 12/08/1997
  Title: METHOD AND SYSTEM FOR ENFORCING FLOATING LICENSES

47 **Patent #:** 6000045   **Issue Dt:** 12/07/1999   **Application #:** 09094428   **Filing Dt:** 06/08/1998
  Title: METHOD AND APPARATUS FOR INTER-DOMAIN ALARM CORRELATION

48 **Patent #:** 6057757   **Issue Dt:** 05/02/2000   **Application #:** 09110564   **Filing Dt:** 07/06/1998
  Title: METHOD AND APPARATUS FOR POLICY-BASED ALARM NOTIFICATION IN A DISTRIBUTED NETWORK MANAGEMENT ENVIRONMENT

49 **Patent #:** 6255943   **Issue Dt:** 07/03/2001   **Application #:** 09124204   **Filing Dt:** 07/28/1998
  Title: METHOD AND APPARATUS FOR DISTRIBUTED OBJECT FILTERING

50   **Patent #:** NONE   **Issue Dt:**   **Application #:** 09131180 **Filing Dt:** 08/10/1998
      Publication #: US20020032760   **Pub Dt:** 03/14/2002
            Title: METHOD AND APPARATUS FOR TRACKING CONNECTION-ORIENTED COMMUNICATIONS
                  CONFIGURATIONS

51   **Patent #:** 6049828   **Issue Dt:** 04/11/2000   **Application #:** 09153711   **Filing Dt:** 09/15/1998
          Title: METHOD AND APPARATUS FOR MONITORING THE STATUS OF NON-POLLABLE DEVICES IN A
                COMPUTER NETWORK

52   **Patent #:** 6421719   **Issue Dt:** 07/16/2002   **Application #:** 09164139   **Filing Dt:** 09/30/1998
          Title: METHOD AND APPARATUS FOR REACTIVE AND DELIBERATIVE CONFIGURATION MANAGEMENT

53   **Patent #:** 6349306   **Issue Dt:** 02/19/2002   **Application #:** 09183701   **Filing Dt:** 10/30/1998
          Title: METHOD AND APPARATUS FOR CONFIGURATION MANAGEMENT IN COMMUNICATIONS
                NETWORKS

54   **Patent #:** 6381639   **Issue Dt:** 04/30/2002   **Application #:** 09219294   **Filing Dt:** 12/22/1998
          Title: POLICY MANAGEMENT AND CONFLICT RESOLUTION IN COMPUTER NETWORKS

55   **Patent #:** 6243747   **Issue Dt:** 06/05/2001   **Application #:** 09249219   **Filing Dt:** 02/12/1999
          Title: METHOD AND APPARATUS FOR DEFINING AND ENFORCING POLICIES FOR CONFIGURATION
                MANAGEMENT IN COMMUNICATIONS NETWORKS

56   **Patent #:** 6064304   **Issue Dt:** 05/16/2000   **Application #:** 09307833   **Filing Dt:** 05/10/1999
          Title: METHOD AND APPARATUS FOR POLICY-BASED ALARM NOTIFICATION IN A DISTRIBUTED
                NETWORK MANAGEMENT ENVIRONMENT

57   **Patent #:** 6651062   **Issue Dt:** 11/18/2003 **Application #:** 09386571 **Filing Dt:** 08/31/1999
      Publication #: US20020188584   **Pub Dt:** 12/12/2002
            Title: METHOD AND APPARATUS FOR MANAGING DATA FOR USE BY DATA APPLICATIONS

58   **Patent #:** 6205563   **Issue Dt:** 03/20/2001   **Application #:** 09455041   **Filing Dt:** 12/06/1999
          Title: METHOD AND APPARATUS FOR INTER-DOMAIN ALARM CORRELATION

59   **Patent #:** 6324590   **Issue Dt:** 11/27/2001   **Application #:** 09539752   **Filing Dt:** 03/31/2000
          Title: Replicated resource management system for managing resources in a distributed application and
                maintaining a relativistic view of state

60   **Patent #:** 6373383   **Issue Dt:** 04/16/2002   **Application #:** 09571625   **Filing Dt:** 05/15/2000
          Title: Method and apparatus for policy-based alarm notification in a distributed network management
                environment

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SERIAL NUMBER: 08502163   FILING DATE: 07/13/1995
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PATENT NUMBER: 5768501   ISSUE DATE: 06/16/1998

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PATENT NUMBER: 5872928   ISSUE DATE: 02/16/1999

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PATENT NUMBER: 5889953   ISSUE DATE: 03/30/1999

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